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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,878	05/27/2005	Jun-ichi Nishizawa	272975US2PCT	8321
22850 7590 04/29/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER GIBSON, ROY DEAN				
ART UNIT 3730		PAPER NUMBER		
NOTIFICATION DATE 04/29/2008		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/536,878

Applicant(s)

NISHIZAWA, JUN-ICHI

Examiner

Roy D. Gibson

Art Unit

3739

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4, 5, 7, 8 and 10 is/are rejected.
- 7) ☒ Claim(s) 3, 6 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/S508)
- Paper No(s)/Mail Date 5/27/05
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilk (5,899,857). Wilk discloses an electromagnetic wave irradiation tool comprising:

a narrow tube defined by an outside diameter of 0.1 mm- 20 mm (Figure 1, waveguide # 18 or Figure 3, casing # 156 or 56 in the figure and col. 1, line 51-col. 2, line 67, and col 8, lines 44-63)

having an electromagnetic wave irradiation terminal configured to irradiate an electromagnetic wave having a frequency equal to a characteristic frequency of a microorganism at the top of the narrow tube; and

an electromagnetic wave generation unit configured to generate the electromagnetic wave and to supply the electromagnetic wave to the electromagnetic wave irradiation terminal; and wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.

Note that for claim 5, that an antenna is inherent in the device for the generation of microwaves frequencies (col. 4, lines 45-51).

Claims 8 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Sieber et al. (5,304,113). Sieber et al. disclose an electromagnetic wave irradiation tool comprising: a blood irrigation system having:

a blood-draw line configured to draw blood from a biological body, and a blood-return line configured to return the blood to the biological body (Figure 1);

an electromagnetic wave irradiation unit (20) configured to irradiate an electromagnetic wave having a frequency equal to a characteristic frequency of a microorganism existing in the blood in the blood-draw line; and

an electromagnetic wave generation unit (inherent power supply) configured to supply the electromagnetic wave to the electromagnetic wave irradiation unit; and

wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies 400-1000 nm (col. 4, line 3-col. 5, line 50).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk.

Although Wilk fails to disclose a temperature sensor to monitor the temperature of the treated tissue, the examiner maintains that it would have been obvious to provide

such a sensor which is extremely well known in the art to monitor tissue temperature and provide a feedback signal to the irradiating device to control it (adjust power of discontinue the power).

Allowable Subject Matter

Claims 3, 6 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Clark (6,719,716) anticipates claims 8 and 10; Schleicher (6,113,566) anticipates claims 8 and 10; Safta (6,767,458) discloses a UV generator used in water purification systems; Takase (5,052,408) discloses an apparatus using microwaves for thermotherapy; and Lagunas-Solar et al. (6,329,136) disclose a method for laser inactivation of infectious agents.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy D. Gibson whose telephone number is 571-272-4767. The examiner can normally be reached on Tu-Th, 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on 571-272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy D. Gibson/
Primary Examiner
Art Unit 3739

April 24, 2008